



## Copper-Silver Ionization Legionella Water Treatment Solutions

POWERFUL - PROVEN - RELIABLE

**CONTACT US:** 1-888-977-4667  
[solutions@csiphoenix.com](mailto:solutions@csiphoenix.com)

PROJECT ID:



**SUBMITTAL**

**VER. 2.5.4**



# WITH **CSIPHOENIX** COPPER-SILVER IONIZATION™

## Boosting Trust with a Health-First Approach



CSIPhoenix® demonstrates your dedication to public health, boosting user trust. Beyond Legionella compliance, it builds a safety-first reputation.

## Maximize Efficiency and Reduce Costs



Up to 60% lower startup costs, CSIPhoenix® enhances water management efficiency, lowering Legionella related maintenance and costs, freeing you to tackle wider facility challenges.

## Reduce Legal and Financial Risks



CSIPhoenix® dramatically cuts Legionella outbreak risks, lowering your exposure to legal and financial fallout, securing your reputation and stability.

# WHY



# CSIPHOENIX™

COPPER-SILVER IONIZATION™



## Advanced Automation Engineering

Cutting-edge industrial automation water treatment solutions engineered for facility potable water networks of any size and configuration.



## Universal BMS Compatibility

CSIPhoenix® is designed for both new and existing facilities, offering easy plumbing and electrical setup. It is suitable for potable water networks of all sizes.



## Durable Chamber Cell Construction

CSIPhoenix® ion chamber cells are NSF/ANSI61 on all wetted components, use schedule 40 (316) stainless steel, and comply with international plumbing and fire building codes.



## Advanced Connectivity Access

CSIPhoenix® features mobile and colour touchscreen multi-user, password protected access with BACNET, WiFi, and Ethernet connectivity.



## Easy to Install & Maintain

CSIPhoenix® offers 55 different industrial automation controller models to suit all potable water conditions and daily water loads, ranging from 10A to a powerful 160A.



## Limited Warranty

CSIPhoenix® offers a 10-year limited warranty on controller parts and labour, ensuring reliability and customer satisfaction.



## "Next-Gen" Legionella Compliance & Prevention Solutions

### CONDOR<sup>™</sup> > AI-Driven Water Management

- Predictive Intelligence: 24/7 machine learning and adaptive ionization processes for peak performance. Engineered for Point of Entry (POE) or Domestic Hot Water (DHW) applications.
- Real-Time Diagnostics: Continuous water composition and usage monitoring to reveal trends before issues arise and deliver optimized ionization processes.
- Proactive Optimization: Instant and predictive ionization adjustments to maintain ideal copper-silver levels, ensuring safety, compliance, and alloy conservation at every step.

### IonSafe<sup>™</sup> > Continuous Ionization Safety System

- Automatic Backup Protection: ensures uninterrupted operation.
- Seamless Performance: Maintains consistent total amperage levels for optimal ion saturation.
- Minimized Downtime: Prevents disruptions with intelligent, automated fault compensation.

### DualArray<sup>™</sup> > Precision Ionization Control

- Independent Electrode Operation: Top and bottom arrays operate separately for precise ion output.
- Optimized Ion Distribution: Ensures consistent performance in high water hardness or low TDS.
- Extended Electrode Life: Enhances efficiency while reducing wear and maintenance costs.

### Industrial-Grade Automation and Power

- Built for Reliability: Uses industrial components with automated fault detection.
- Powerful Variable Drives: Delivers up to 180 VDC with independent activation for each cell.
- High-Capacity Efficiency: Controller models of 10A to 320A, reducing costs and smaller relative footprint to legacy systems.

### Flexible, Multi-Platform Connectivity

- Seamless BMS Integration: Supports BACnet, TCP/IP, and customizable communication protocols.
- Secure Remote Monitoring: Real-time control and oversight from any device.
- Simplified Reporting: Standard relay contacts provide easy status integration with facility systems.

**Call Today! 1-888-988-4667 or [csphoenix.com](https://www.csphoenix.com)**

Next-Gen  
**CSPHOENIX**<sup>®</sup>  
with CONDOR<sup>™</sup>, IonSafe<sup>™</sup>, & DualArray<sup>™</sup>

# Copper Silver Ionization REQUIRED SOLUTION



10" Touch Screen HMI



**PROJECT ID:**





163 VALMONT CROIS. DIEPPE, NB CANADA E1A 6J5  
PHONE: 1-888-988-4667 | FAX: 1-866-420-2596 | EMAIL: support@csiddefender.com

## REQUIRED ITEMS

DATE :  
NO :

Refer to the items list  
that has been provided  
by your vendor.

Engineering, Manufacturing & Support since 2002

HST # 85598 1049 | EIN # 98-1053781 | EPA # 91267-CAN-001

Thank you for this opportunity!

"GENERAL TERMS OF SALE, LIMITATIONS OF LIABILITIES AND WARRANTY" • Physical installation (plumbing & electrical) must be complete prior to commissioning • Facilities must have a permanent potable water source prior commissioning • Plumbing & Electrical is not included • Commissioning is only included when shown on it's own item line • DHW Loop calibration startups must have a full operational load.

© 2024 Procure Water Treatment Inc. - All Rights Reserved - Procure Water Treatment Inc. abides to the Canadian Competition Act both domestically and abroad. - Confidentiality Notice & Without Prejudice: This document, including any attachments, is the property of Procure Water Treatment Inc. and is intended for the sole use of the intended recipient(s). It contains privileged and confidential information. This document is bound by the terms of use agreed upon in order to generate the document on-line. Any unauthorized review, use, disclosure, or distribution of this material is prohibited. If you are not the intended recipient, please delete this file, and reply to the sender regarding the error in a separate email. Track Code 9146587-556487

Next-Gen  
**CSPH<sup>®</sup>ENIX<sup>®</sup>**  
with CONDOR<sup>™</sup>, IonSafe<sup>™</sup>, & DualArray<sup>™</sup>

20<sup>+</sup> YEARS



Refer to the schedule  
that has been provided  
by your vendor.



## SHOP DRAWING(S)

Refer to the shop drawing(s)  
provided by your vendor.

## GENERAL TERMS OF WARRANTY



All ProCare Water Treatment Inc. copper-silver ionization (CSI) controllers are warranted to be free from manufacturer defects for a period of ten (10) years from the date of shipment.

CSIDefender® and CSIPhoenix® ionization chamber cell consumables are warranted to be free from defects for a period of one (1) year from the date of commissioning and startup, provided that components have not been damaged by misuse, mishandling, extreme temperatures, humidity, corrosive or abrasive conditions, improper storage, or inappropriate environmental conditions.

**A 10-year CSIDefender® or CSIPhoenix® controller warranty will remain in effect under the following conditions:**

- That the end technology user/owner or facility management personnel responsible for overall facility structural operations (i.e., plumbing department or infection control) proceeds with facility potable water testing for copper in areas where the CSIDefender® or CSIPhoenix® technology is installed.
- That the copper water testing will be accomplished via the use of a field copper test kit supplied by the manufacturer.
- That the frequency of these facility potable water tests be no less than once per week (or more frequently as required) at pre-identified facility water sampling locations.
- That the end-user will immediately report the potable water copper test results in the portal-hub.com or csigenesis.com online portal network, where a username and password to access their account will be provided to the end-user by ProCare Water Treatment Inc. free of charge.
- That the CSIDefender® or CSIPhoenix® ionization chamber cell periodical preventative cleaning maintenance (every 3 to 6 weeks, depending on water conditions) and consumable replacement every 9 to 14 months based on actual usage and controller readings, as instructed by the manufacturer to maintain properly functioning water treatment technology, also be reported in the portal-hub.com or csigenesis.com online network. Batch data pooling or delayed reporting is not permitted.

This hardware warranty is expressly in lieu of any other warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or application. Any modifications to the CSIDefender® or CSIPhoenix® copper-silver ionization controller(s) and/or ionization chamber cell(s) will null and void this warranty.

Failure to replace the CSIDefender® or CSIPhoenix® ionization chamber cells with new original ProCare Water Treatment Inc. replacement cells within the specified 9–14 month interval (as indicated by usage and controller readings) will null and void this warranty unless authorized explicitly in writing by ProCare Water Treatment Inc.

The official warranty start date ("Day 1") for a CSIDefender® or CSIPhoenix® controller will be identified in a post-startup and commissioning report provided to the end-user by ProCare Water Treatment Inc. or an authorized and certified ProCare technology technician.

A maximum grace period of twelve (12) months from the shipment date is permitted to accommodate reasonable delays related to installation, commissioning, and calibration. Beyond this point, if commissioning has not yet occurred, the warranty activation date will be fixed at exactly twelve (12) months following the original shipment date.

### WARRANTY CLAIM PROCEDURE

All warranty claims **MUST** be submitted in writing and mailed or delivered by the original purchaser within thirty (30) days after the purchaser first learns of the essential facts on which the claim is based. Any claims **NOT** made in writing, not postmarked, or received within this allotted time period shall be deemed waived.

Claims must be submitted via email or registered mail to:

**ProCare Water Treatment Inc.**  
Dieppe, New Brunswick, Canada  
**Email: [support@csiphoenix.com](mailto:support@csiphoenix.com)**





## GENERAL TERMS OF WARRANTY



### LIMITATION OF LIABILITY

The purchaser's sole and exclusive remedy—and the maximum liability of ProCare Water Treatment Inc. for any claim under this warranty—shall be strictly limited to the repair or replacement of the defective item exclusively with original equipment manufactured by ProCare Water Treatment Inc., or, at ProCare Water Treatment Inc.'s sole discretion, a refund not exceeding the original purchase price paid for the specific item under warranty.

ProCare Water Treatment Inc. shall not be responsible or liable for any electrical, plumbing, structural modifications, infrastructure changes, labor, installation costs, or other associated expenses. Warranty obligations are explicitly limited to the technology manufactured and provided by ProCare Water Treatment Inc.

Under no circumstances shall ProCare Water Treatment Inc. be obligated to supply replacement equipment, parts, or consumables produced by any other manufacturer or competitor.

### PRICES, TERMS & CONDITIONS

Prices, sales terms, warranty terms, and conditions are subject to review or changes without notice. All orders are subject to acceptance by ProCare Water Treatment Inc. at its headquarters in Dieppe, New Brunswick, CANADA. No assignment of the purchaser's rights may be made without express permission from ProCare Water Treatment Inc.

No representative, employee, or agent of ProCare Water Treatment Inc. is authorized to assume on behalf of ProCare Water Treatment Inc. any liabilities or responsibilities in addition to, or different from, those explicitly stated herein. Any representations, promises, statements, or warranties made beyond those contained within this document are considered void and of no effect.

### WARRANTY CONDITIONS FOR CHAMBER CELLS (Consumables)

Should a warranty claim be made for CSIDefender® or CSIPhoenix® ionization chamber cells (consumables), the replacement cells will be pro-rated based on the usage and consumption of the originally supplied alloy. Premature alloy depletion or erosion due to excessive usage is considered normal operational wear and is not covered under this manufacturing warranty.

ProCare Water Treatment Inc. reserves the right to refuse warranty claims associated with improper installation, premature alloy depletion, or damage due to inappropriate or harsh environmental conditions. This includes, but is not limited to, the installation of chamber cells in locations not specified or approved in the original proposal or installation instructions.

### LEGIONELLA RISK REDUCTION DISCLAIMER

ProCare Water Treatment Inc. makes no explicit guarantees or claims regarding the absolute prevention or elimination of Legionella or other waterborne pathogens. Copper-silver ionization is recognized as an effective and validated method for controlling the growth of *Legionella pneumophila* when maintained according to the provided guidelines. ProCare Water Treatment Inc. assumes no liability for neglect, misuse, or operational conditions beyond its control.

© 2025 – ProCare Water Treatment Inc.

CSIDefender® | CSIPhoenix® | AquaLyse®

Dieppe, New Brunswick, CANADA  
www.csiphoenix.com | support@csiphoenix.com  
Toll Free: 1-888-988-4667

Next-Gen  
**CSPHOENIX**  
with CONDOR™, IonSafe™, & DualArray™

## DATA SHEET



10" Touch Screen HMI



**PROJECT ID:**



# Facility Potable Water Treatment



Canada, USA, Europe,  
GCC and Asia Since 2002

**"Legionella Growth  
Prevention That Works"**

CSIPhoenix® lowers the exposure risks associated to waterborne microorganisms such as Legionella pneumophila, cause of Legionnaires disease and/or Pontiac fever.

Improve facility compliance with international best practices by implementing the CSIPhoenix® "chemical free" medical, commercial or military grade copper silver ionization technology in your facility's incoming potable water supply lines and/or reservoirs.

## PROJECT ID:



### CSIPhoenix® ion generators help engineers comply with...

- The control of Legionella bacteria in water systems, HSC approved Code of practice and Guidance L8<sup>1</sup>
- Technical Memoranda TM13 Minimizing the risk of Legionnaires disease<sup>2</sup>
- The Control of Legionellosis including Legionnaires' Disease Health and Safety Series Booklet<sup>3</sup>

CSIPhoenix® water treatment technology is specifically engineered and manufactured for healthcare facilities, hotels, VA hospitals, condominiums, villas, resorts, government and commercial build-ings, military and other large facilities with elaborate water distribution networks.

With over 73 models to choose from, the CSIPhoenix® patented water treatment technology is the most sophisticated, reliable, robust and affordable facility potable water treatment technology on the market today.

**CSIPHOENIX**  
with IonSafe® & DualArray®

Anti-Legionella Code References:

<sup>1</sup> London: Health and Safety Executive/The stationery Office

<sup>2</sup> London Chartered Institution of Building Services Engineers (2002)

<sup>3</sup> The Health and Safety Executive (HS(G)70).HSE.ISBN0118821504



## Ionization Chamber Cells

CSIDefender<sup>®</sup> ICR-820 Ionization Chamber Cells are **manufactured in North America** and engineered for Legionella growth control and prevention in large facility potable water distribution networks.

Each CSIDefender<sup>®</sup> chamber cell is **constructed of a schedule 40 / 316 Stainless Steel jacket (2)** to comply with international plumbing code 605.4 & local fire building codes when applicable. These high performance ionization chamber cells are **easily installed and removed for periodic maintenance** with the use of integrated cut grooves (1) intended for Victaulic<sup>®</sup> (or similar) unions or flanges.

All CSIDefender<sup>®</sup> chamber cell internal wetted components are **constructed of NSF/ANSI61 certified Delrin<sup>®</sup> 500P BK602. (6,7 & 8)**

An impressive **eight internal alloy electrodes** are mounted in a "cross-configuration" pattern (7) to **deliver the highest electrode surface contact ratio in the industry** and maximizes ionization performance in any liquid water conditions.

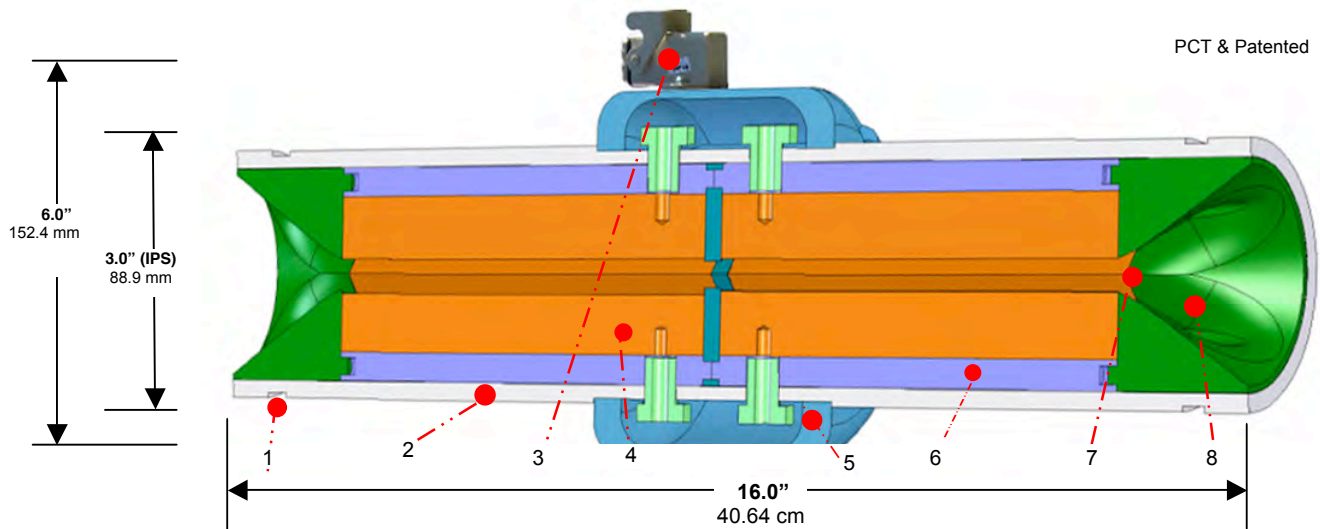
CSIDefender<sup>®</sup> chamber cells include "end-to-end" bi-directional internal laminar flow hydro dynamic features (8) that channels the water with **less than 3PSI drop in pressure**. This same feature **prevents premature physical electrode erosion** when installed in recirculated water loops and also offers **reduced internal water turbulence and unwanted sedimentation deposits** due to water eddies.

Finally, each chamber cell includes an industrial grade waterproof electrical quick connect (3) that links the internal sacrificial alloy electrodes (4) to the appropriately sized automated CSIDefender<sup>®</sup> software controller (*not shown*) for precise copper & silver water ionization generation. An external electrical harness protector (5) is also included to prevent external damage during preventative maintenance cleaning or tampering while in use.



<b>Exterior Cell Enclosure:</b>	Schedule 40 (316) Stainless Steel
<b>Dimension:</b>	<b>(3.0"IPS x 16")</b> 89mm OD x 16.0"
<b>Supplied Ion Chambers:</b>	CSI-E1 = 1 Cell, CSI-E2 = 2 Cells
<b>Union Type:</b>	Victaulic <sup>®</sup> (optional)
<b>Maximum ICR-820 pressure:</b>	820 PSI / 56.5 Bar / 5653 kPa
<b>Victaulic<sup>®</sup> Style 75:</b>	500 PSI / 24 Bar / 2413 kPa
<b>Maximum ICR-820 Temp.:</b>	135°C / 275°F
<b>Maximum Union Temp.:</b>	110°C / 230°F
<b>CSIDefender<sup>®</sup> Flow Capacity:</b>	4 to 65 GPM ea. cell
<b>Copper Silver Chamber Cell</b>	23 lbs ea.
<b>Water Pipe Fittings Sizes:</b>	Available based on requirements

- Each CSIDefender<sup>®</sup> ICR-820 ionization chamber cell can treat up to 25,000 GPD (DHW) and accommodate water flows velocities of 4 gpm up to 65 gpm. The cells have the highest water temperature and pressure rating in the industry.
- Internal ionization copper-silver alloy electrodes are composed of certified high quality copper and medical grade 5-9 silver metals.



## Ionization Chamber Cell Engineering Features

### International Plumbing Codes:

The CSIDefender<sup>®</sup> copper silver ionization chamber cell is constructed of a schedule 40 stainless steel outside jacket. This engineering feature provides an amazing water pressure rating of over 820 PSI (56.5 Bar / 5,653 kPa) in any liquid water temperature. CSIDefender<sup>®</sup> ionization cells meets International Plumbing Code 605.4 - That states: "water distribution pipe and tubing shall have a pressure rating of not less than 100 PSI (6.9 Bar / 690 kPa) at 180°F (82°C)."



### Cross Configuration:

With eight (8) custom molded copper/silver alloy electrodes mounted inside each ionization chamber cell, CSIDefender<sup>®</sup> patented internal "cross configuration" offers the flow capacity unmatched by any

other cell on the market. Unlike the traditional exposed-end electrodes.

### Industrial Connectors:

CSIDefender<sup>®</sup> focus groups with engineers made it very clear that the use of standardized unions and flanges was preferable for preventative maintenance access. This is why the use of industry known and accepted Victaulic<sup>®</sup> unions (or flanges) for 3" IPS are used in conjunction with the CSIDefender<sup>®</sup> cut grooved schedule 40 stainless steel ionization chamber cells. This ease of use makes CSIDefender<sup>®</sup> chamber cells reliable and easy to install regardless of your geographical location world wide.



### Max Water Pressures:

**820 PSI (56.5 Bar / 5,653 kPa)**

@ 48.8C/120F - CPVC= 208 PSI - AquaLyse<sup>®</sup>= 820 PSI  
@ 65.5C/150F - CPVC= 150 PSI - AquaLyse<sup>®</sup>= 820 PSI  
@ 82.2C/180F - CPVC= 80 PSI - AquaLyse<sup>®</sup>= 820 PSI  
@ 98.8C/210F - CPVC= 52 PSI - AquaLyse<sup>®</sup>= 820 PSI

**Plumbing Code 605.4:** "water distribution pipe and tubing shall have a pressure rating of not less than 100 PSI (6.9 Bar / 690 kPa) at 180°F (82°C)."



### Fire Code Compliance:

Unlike PVC and CPVC, CSIDefender<sup>®</sup> corrosion proof schedule 40 stainless steel cells are engineered to meet all fire building codes. The new CSIDefender<sup>®</sup> 820 series cell now offers a fire-resistant sustained

pressures tolerances of well over 820 PSI and at any liquid water temperature.



### Internal Laminar Flow Engineering:

CSIDefender<sup>®</sup> was the first and is still the only brand of copper silver ionization chamber cells to offer it's patented internal laminar flow configuration.

CSIDefender<sup>®</sup> provides a unique internal electrode water erosion prevention feature that extends the lifespan of the cells by over 19% compared to any other cell on the market. CSIDefender<sup>®</sup> unique engineering features eliminates internal water eddies that cause premature sedimentation combined with almost double electrode surface contact with the flowing potable water.





PROJECT ID:

LEGIONELLA COMPLIANCE  
& IMPROVED FACILITY STANDARDS WITH

NEXT-GEN  
**CSPHOENIX**  
COPPER SILVER IONIZATION SOLUTIONS®

 **CSPHOENIX**  
COPPER SILVER IONIZATION®  
DualArray™

WATER TREATMENT SOLUTIONS DESIGNED  
FOR LEGIONELLA REGULATORY  
COMPLIANCE, AND COMPREHENSIVE RISK  
MANAGEMENT.

Toll Free (USA & CANADA)

**1-888-988-4667**

[support@csiddefender.com](mailto:support@csiddefender.com)

YEARS+  
**20**  
Proactive Water Treatment Inc.  
2002-2022



© 2025 – All Rights Reserved - CSPhoenix® is a Registered Trademark.  
[www.csiphoenix.com](http://www.csiphoenix.com) | US EPA #: 91267





## Some CSI Installations Since 2002



**PROJECT ID:**

## Humber River Hospital (NEW FACILITY)

York, ON, CANADA

Built in 2015, Humber River Hospital is located at 1235 Wilson Avenue, Toronto, Ontario M3M 0B2. This is the first fully digital and most modern healthcare facility in North America.

CSI-E6 (60A) and CSI-E3M3 (30A) solutions are installed in this healthcare facility to treat the four separate domestic hot water zones for Legionella compliance and growth prevention.

### CSI Solution Installation Details:

<b>MODEL NO.:</b>	CSI-E6 (60A)   CSI-E3M3 (30A)
<b>Application:</b>	DHW (4x DHW Zones)
<b>Solution:</b>	CSI-E6 (60A Output with 6 Active and Independent Chamber Cells) CSI-E3M3 (30A Output with 3 Active Independent DHW Zones Cells)
<b>Total Capacity:</b>	≤ 135,000 GPD   ≤ 24,500 GPD x 3
<b>Construction:</b>	MEP - Specified for DHW Legionella Prevention



## Oakville - Halton Healthcare

Oakville, ON, CANADA

Halton Healthcare (formally, Halton Healthcare Services Corporation) is a regional healthcare organization located in the Greater u7Toronto Area. It is composed of three community hospitals in Ontario, CANADA. It serves the communities of Milton, Oakville, and Halton Hills. The three hospitals serve over 300,000 residents. As at 2014, Halton Healthcare has 3,245 staff, 1,319 volunteers and 317 physicians. It falls within the boundaries of the Mississauga-Halton Local Health Integration Network. Two (2) copper silver ionisation units are installed in the Oakville facility for Legionella growth prevention. CSI-E3 (30A) and CSI-E1 (10A) are installed in this healthcare facility to treat the potable domestic hot water zones.

### CSI Solution Installation Details:

<b>Model No.:</b>	CSI-E3 (30A)   CSI-E1 (10A)
<b>Application:</b>	DHW x 2 (Separate Mechanical Rooms)
<b>Solution:</b>	CSI-E1 (1 unit / 1 cells / 10 amps) for 1 x DHW Zone & CSI-E3 (1 unit / 3 cells / 30 amps) for 1 x larger 435 Bed DHW Zone
<b>Capacity:</b>	≤ 67,500 GPD / ≤ 435 Beds   ≤ 22,500 GPD / ≤ 145 Beds
<b>Construction:</b>	MEP - Specified for DHW Legionella Prevention



## Milton District Hospital

Milton, ON

Milton District Hospital offers a wide range of primary care services. Its major areas of clinical emphasis include emergency, obstetrics, general medicine, intensive care unit, surgery, rehabilitation, and complex continuing care.

The emergency department is open 24 hours a day, seven days a week, together with the outpatient department provides care to more than 37,000 patients annually.

### CSI Solution Installation Details:

<b>Model No.:</b>	CSI-E4M211 (40A) - Multi Zone CSI Solution
<b>Application:</b>	3x DHW Zones (Common Mechanical Rooms)
<b>Solution:</b>	20A Controller with 2 Independent Chamber Cells 2x (10A Controller with 1 Independent Chamber Cell)
<b>Capacity:</b>	≤ 45,000 GPD / ≤ 290 Beds   2x (≤ 25,000 GPD   ≤ 145 Beds )
<b>Construction:</b>	New - MEP - Specified





## Owen Sound Regional Hospital

Owen Sound, ON, CANADA

The Owen Sound Regional Hospital is both the community hospital for Owen Sound and area and the specialist acute care center for Grey & Bruce counties and beyond. Approximately 102,000 people use its services each year. More than 100 specialist physicians practice at the hospital, including 26 surgeons. The hospital offers a wide range of services including ambulatory care, oncology, emergency, women and child care, surgical & acute care services, mental health, rehabilitation, diagnostic imaging and laboratory. The hospital also provides dialysis, the Ontario Breast Screening Program and is the designated Stroke Centre for the region. The hospital has extensive laboratory and diagnostic imaging facilities.

### CSI Solution Installation Details:

<b>Model No.:</b>	CSI-E2 (20A)
<b>Application:</b>	DHW
<b>Solution:</b>	20A Controller with 2 Chamber Cells
<b>Capacity:</b>	≤ 45,000 GPD / ≤ 290 beds
<b>Construction:</b>	New – MEP - Specified



## Bridgepoint Healthcare

Toronto, ON, CANADA

Toronto area newest hospital, seen here from the Gerard Street bridge above the Don Valley Parkway. As construction nears completion, this location began moving patients into the new building around April 2013. The historic Don Jail next door, which has been undergoing an extensive cleaning and restoration, inside and out, opened at the same time. 4 CSI-medical copper silver ion generators are installed in the new facility meeting all facility plumbing and fire building codes.

### CSI Solution Installation Details:

<b>Model No.:</b>	3x CSI-E2 (20A)   CSI-E1 (10A)
<b>Application:</b>	4x DHW Zones (4 Separate Mechanical Rooms)
<b>Solution:</b>	CSI-E2 (20A Output with 2 Active Cells) x3 CSI-E1 (10A Output with 1 Active Cell)
<b>Capacity:</b>	3x ≤ 45,000 GPD / ≤ 290 Beds   ≤ 25,000 GPD / ≤ 145 Beds
<b>Construction:</b>	New – MEP - Specified



## St Michael's Hospital

Toronto, ON, CANADA

St. Michael's Hospital is a Catholic teaching and research hospital in downtown Toronto. Affectionately known as the Urban Angel, St. Michael's is renowned for providing exceptional patient care. As downtown Toronto's adult trauma center, the hospital is a hub for neurosurgery, complex cardiac and cardiovascular care, diabetes and osteoporosis care, minimally invasive surgery and care of the homeless and disadvantaged. Fully affiliated with the University of Toronto and home to the Li Ka Shing Knowledge Institute, St. Michael's provides outstanding medical education to health-care professionals in 29 academic disciplines. The Sisters opened St. Michael's Hospital in 1892 with a bed capacity of 26 and a staff of six doctors and four graduate nurses. Within a year, accommodation was increased to include two large wards and an emergency department.

### CSI Solution Installation Details:

<b>Model No.:</b>	CSI-E2 (20A)
<b>Application:</b>	DHW
<b>Solution:</b>	20A Controller with 2 Chamber Cells
<b>Capacity:</b>	≤ 45,000 GPD / ≤ 290 beds
<b>Construction:</b>	New – MEP - Specified





## Humber River Hospital (MultiCare Kidney Clinic)

York, ON, CANADA

This Humber River Hospital clinic is a leading regional centre for Dialysis Services. They are one of Toronto's largest dialysis programs with a well-established pre-dialysis clinic. They serve patients from diagnosis to treatment and monitoring.

CSI-E1 (10) solutions is installed in this healthcare facility clinic to treat the domestic hot water zone for Legionella compliance and growth prevention.

### CSI Solution Installation Details:

<b>MODEL NO.:</b>	CSI-E1 (10A)
<b>Application:</b>	DHW
<b>Solution:</b>	CSI-E1 (10A Output with 1 Active and Independent Chamber Cells)
<b>Total Capacity:</b>	≤ 22,500 GPD   ≤ 100M3D
<b>Construction:</b>	Retrofit / Consultant Recommended



## Waypoint Centre for Mental Health

Penetanguishene, ON, CANADA

Waypoint Centre for Mental Health Care is an internationally recognized psychiatric hospital and forensic mental health research facility located on the beautiful shores of Georgian Bay in the Town of Penetanguishene.

They provide an extensive range of both acute and longer term psychiatric inpatient and outpatient services to Simcoe County, Muskoka, part of Dufferin County and the southern portion of Parry Sound. In addition, Waypoint provides the province's only high secure forensic mental health program for clients served by both the mental health and justice systems. The hospital is recognized for the provision of exceptional care to those most needing mental health services and for its contributions to the understanding of mental illness.

### CSI Solution Installation Details:

<b>Model No.:</b>	CSI- E2 (20A)
<b>Application:</b>	DHW
<b>Solution:</b>	20A Controller with 2 Independent Chamber Cells
<b>Capacity:</b>	≤ 45,000 GPD / ≤ 200M3D / ≤ 290 Beds
<b>Construction:</b>	New – MEP - Specified



## McMaster Children's Healthcare

Hamilton, ON, CANADA

Founded in 1988, Master Children's Hospital (MCH) has rapidly become a leader in pediatric evidence-based care, collaborative research and innovative leading edge education. MCH is home to 165 acute care beds and 10 day beds, 80 subspecialty clinics, a Children's Treatment Centre and one of the largest and most impressive Neonatal Intensive Care Units in Canada. Each year MCH has over 210,000 patient encounters in our subspecialty clinics, diagnostic areas, emergency department, inpatient wards and operating rooms. One (1) copper silver ionisation unit is installed in this McMaster facility for Legionella growth prevention. CSI-E1 (10 amps) is installed in this healthcare facility to treat the potable domestic hot water zone.

### CSI Solution Installation Details:

<b>Model No.:</b>	CSI-E1 (10A)
<b>Application:</b>	DHW
<b>Solution:</b>	10A Controller with 1 Independent Chamber Cell
<b>Capacity:</b>	≤ 22,500 GPD / ≤ 145 beds
<b>Construction:</b>	MEP - Specified for DHW Legionella Prevention

